

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 November 2004 (18.11.2004)

PCT

(10) International Publication Number
WO 2004/098624 A1

(51) International Patent Classification⁷: **A61K 35/78**

(21) International Application Number:
PCT/KR2004/000708

(22) International Filing Date: 27 March 2004 (27.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2003-0019229 27 March 2003 (27.03.2003) KR
10-2003-0019230 27 March 2003 (27.03.2003) KR

(71) Applicant (for all designated States except US): **UNIGEN INC. [KR/KR]; #182-2, Bangi 1-dong, Songpa-gu, Seoul 138-834 (KR)**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WOO, Sung-Sick [KR/KR]; Seochohanshin APT. 101-1005, 1454-29 Seocho 3-dong, Seocho-gu, Seoul 137-867 (KR). JO, Tae Hyung [KR/KR]; Sangnok Maeul APT. 302-201, 121, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-731 (KR). KIM, Dong Seon [KR/KR]; Hyundae APT. 104-1002, Wa-dong, Daeduk-gu, Daejeon 306-789 (KR). SUNG, Sun-Young [KR/KR]; Jueun-Poonglim APT. 104-714, 219-3, Yongdu-ri, Gongdo-eup, Anseong-si, Gyeonggi-do 456-714 (KR). DO, Seon-Gil [KR/KR]; Hanul APT. 201-1106, 724-1 Yuliyang-dong, Sangdang-gu, Cheongju-si, Chungcheongbuk-do 360-818 (KR). LEE, Young Chul [KR/KR]; Samsung APT. 14-1103, Oryu-dong, Jung-gu, Daejeon 301-758 (KR). NAM, Jeong Bum [KR/KR]; Woosung APT. 101-306, 639, Jeongnim-dong, Seo-gu, Daejeon 302-795 (KR). RYU, Jong Ha [KR/KR]; #1022-71, Manchon 2-dong, Suseong-gu, Daegu 706-756 (KR). LEE, Kang Woo [KR/KR]; Hoban Regencyvill APT. 105-404, 909, Baekseok-dong, Cheonan-si, Chungcheongnam-do 330-220 (KR). SUNG, Hee Sun [KR/KR]; #322-9, Hwasu 2-dong, Paldal-gu, Suwon-si, Gyeonggi-do 440-152 (KR). HEO, Young Moon [KR/KR]; #237-19, Yochon-dong, Gimje-si, Jeollabuk-do 576-010 (KR). OH, Mi-Sun [KR/KR];**

#36-7, Munhwa-dong, Cheonan-si, Chungcheongnam-do 330-020 (KR). CHO, Ji Nyeo [KR/KR]; #515-45, Sutack 1-dong, Guri-si, Gyeonggi-do 471-822 (KR). SUNG, Sookkyung [KR/KR]; #200-1, Songjung-ri, Byeongcheon-myeon, Cheonan-si, Chungcheongnam-do 330-863 (KR). LEE, Ju Yeon [KR/KR]; Samsunggreenvill APT. 102-1104, 486-2 Duryu 3-dong, Dalseo-gu, Daegu 704-910 (KR). KIM, Tae Woo [KR/KR]; #83-9, Haksung-dong, Jung-gu, Ulsan 681-180 (KR). SONG, Ji Sook [KR/KR]; Saetbyeolmaeul, Sambu APT. 401-701, 39, Bundang-dong, Bundang-gu, Seoungnam-si, Gyeonggi-do 463-749 (KR). LEE, Seoung Ho [KR/KR]; Daewootower APT. 1003, 15-1 Bungmunno 3-ga, Sangdang-gu, Cheongju-si, Chungcheongbuk-do 360-013 (KR). KIM, Mi Ran [KR/KR]; #1443-8, Sillim 5-dong, Gwanak-gu, Seoul 151-891 (KR).

(74) Agent: **SHIN, Dong-In; 304, Dukam Bldg., 1457-2 Seocho3-dong, Seocho-gu, Seoul 137-867 (KR)**

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/098624 A1

(54) Title: COMPOSITION COMPRISING BAMBOO EXTRACT AND THE COMPOUNDS ISOLATED THEREFROM SHOWING TREATING AND PREVENTING ACTIVITY FOR INFLAMMATORY AND BLOOD CIRCULATION DISEASE

(57) Abstract: The present invention relates to a composition comprising a bamboo plant extract for the prevention and treatment of inflammatory or blood circulation disease. The extracts of bamboo plant has potent anti-inflammatory activity by inhibiting NO production and blood circulation-improving activity by inhibiting elastase activity and healing the wound of vascular endothelial cell, activating u-PA expression and inhibiting PAI-1 expression, lowering cholesterol deposit and inhibiting neointima formation, therefore it can be used as a therapeutic or health care food for treating and preventing inflammatory or blood circulation diseases.